

Figure 1

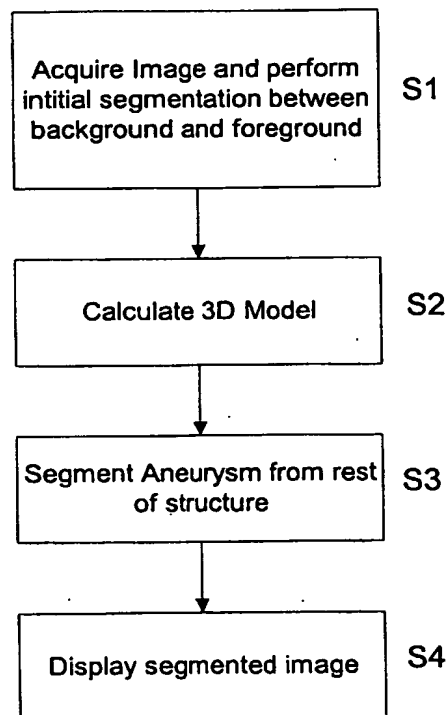


Figure 2

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Figure 3: a.) 3-D model of an aneurysm and adjoining vessels. b.) Mesh computed for the 3-D model.

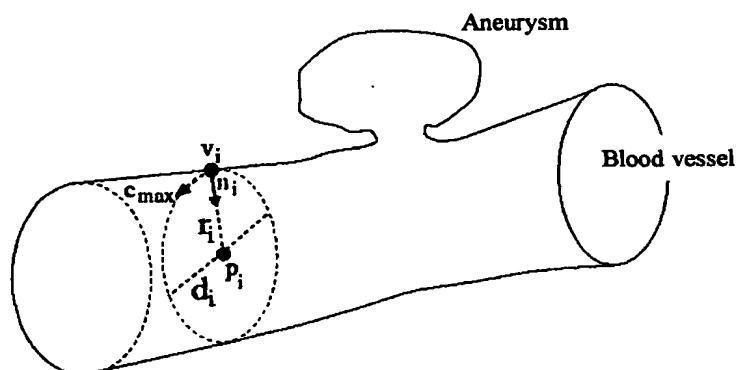


Figure 4: Local shape descriptors, vessel radius and the perpendicular diameter.

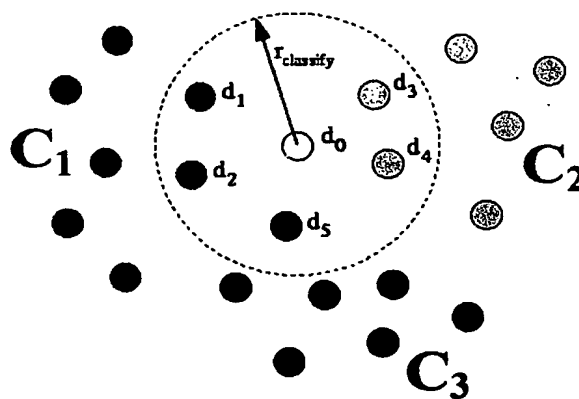


Figure 5: Point and neighbourhood.

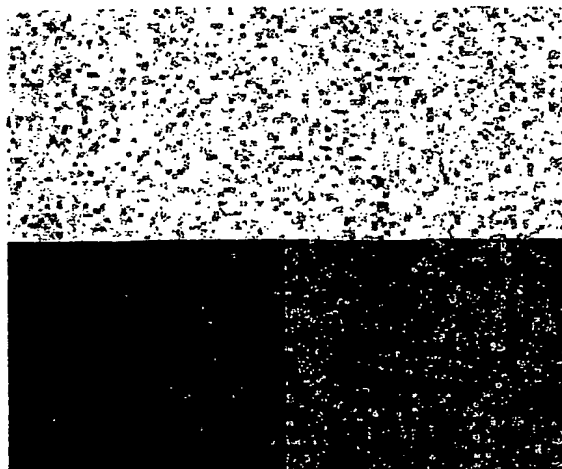


Figure 6: Synthetic data containing three groups.

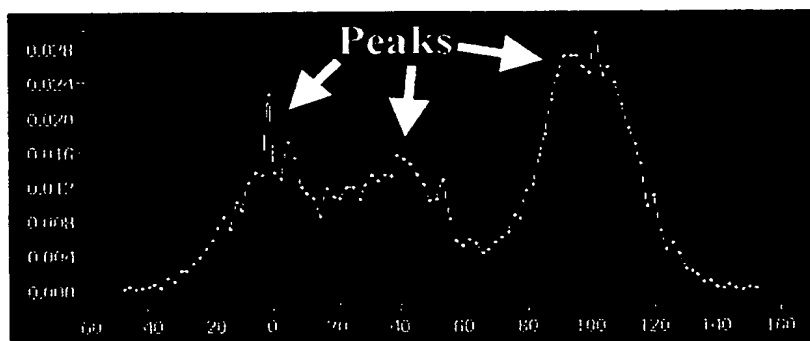


Figure 7: Initial Probability $P(v_j | d_j \in C_0)$.

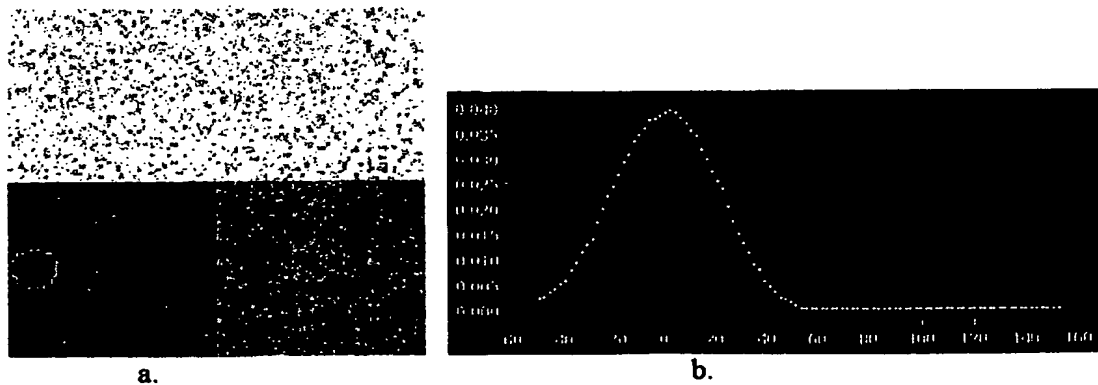
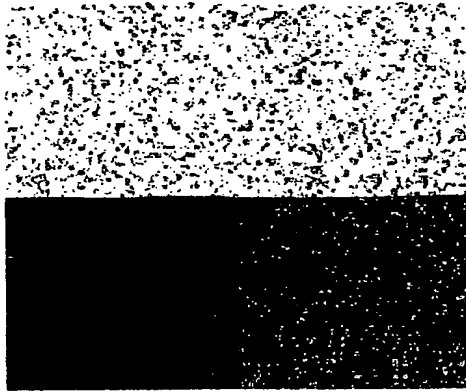
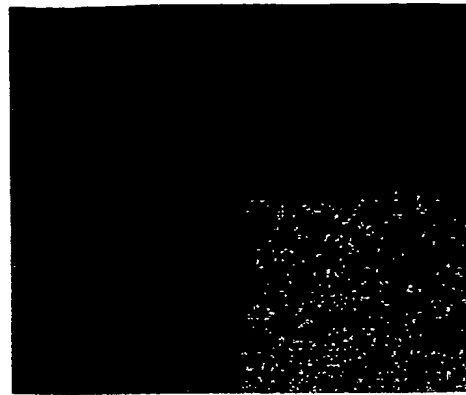
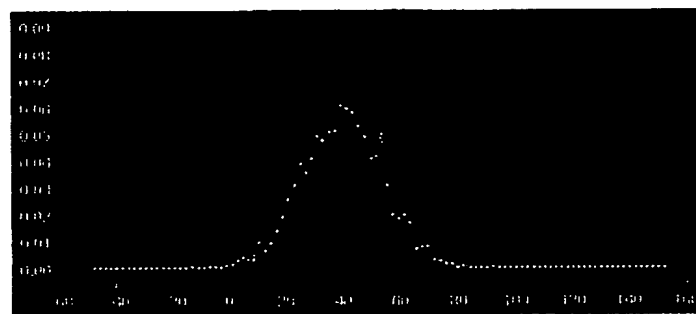
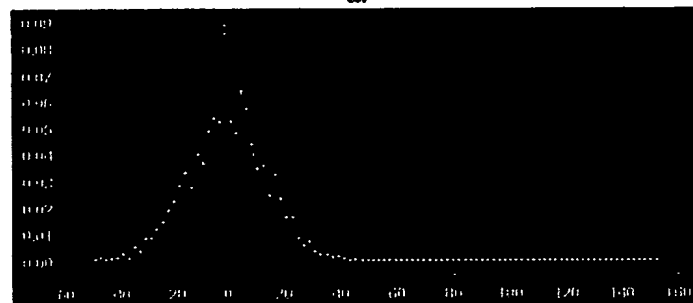


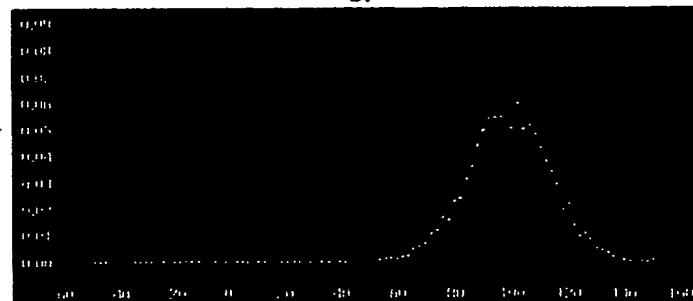
Figure 8: a.) Seed for Class C_1 . b.) Initial probability for $P(v_j | d_j \in C_1)$.

Figure 9: Classification after C_1 converges.Figure 10: Classification after C_2 converges.

a.



b.



c.

Figure 11: Probability densities after C_2 converges. a.) $P(v_j | d_j \in C_0)$. b.) $P(v_j | d_j \in C_1)$. c.) $P(v_j | d_j \in C_2)$.

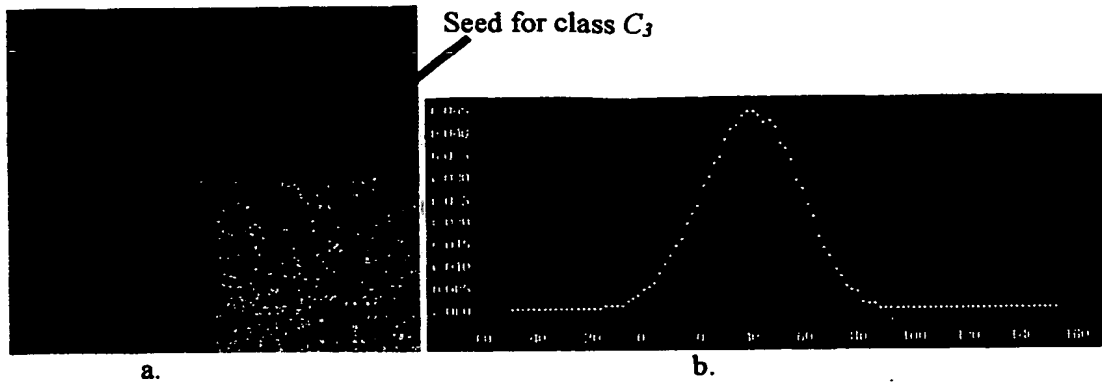


Figure 12: a.) Seed for Class C_3 . b.) Initial probability for $P(v_j | d_j \in C_3)$.

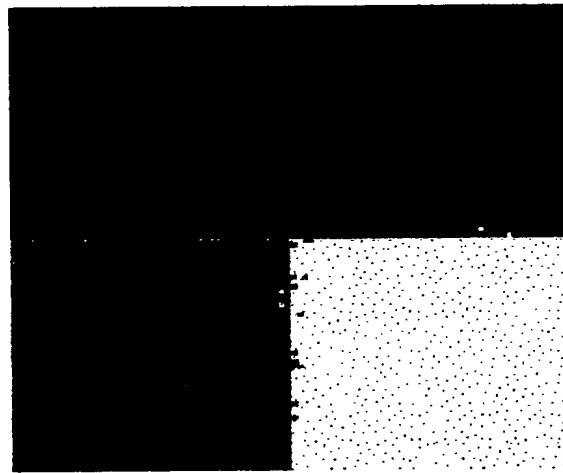


Figure 13: Final segmentation of synthetic data.

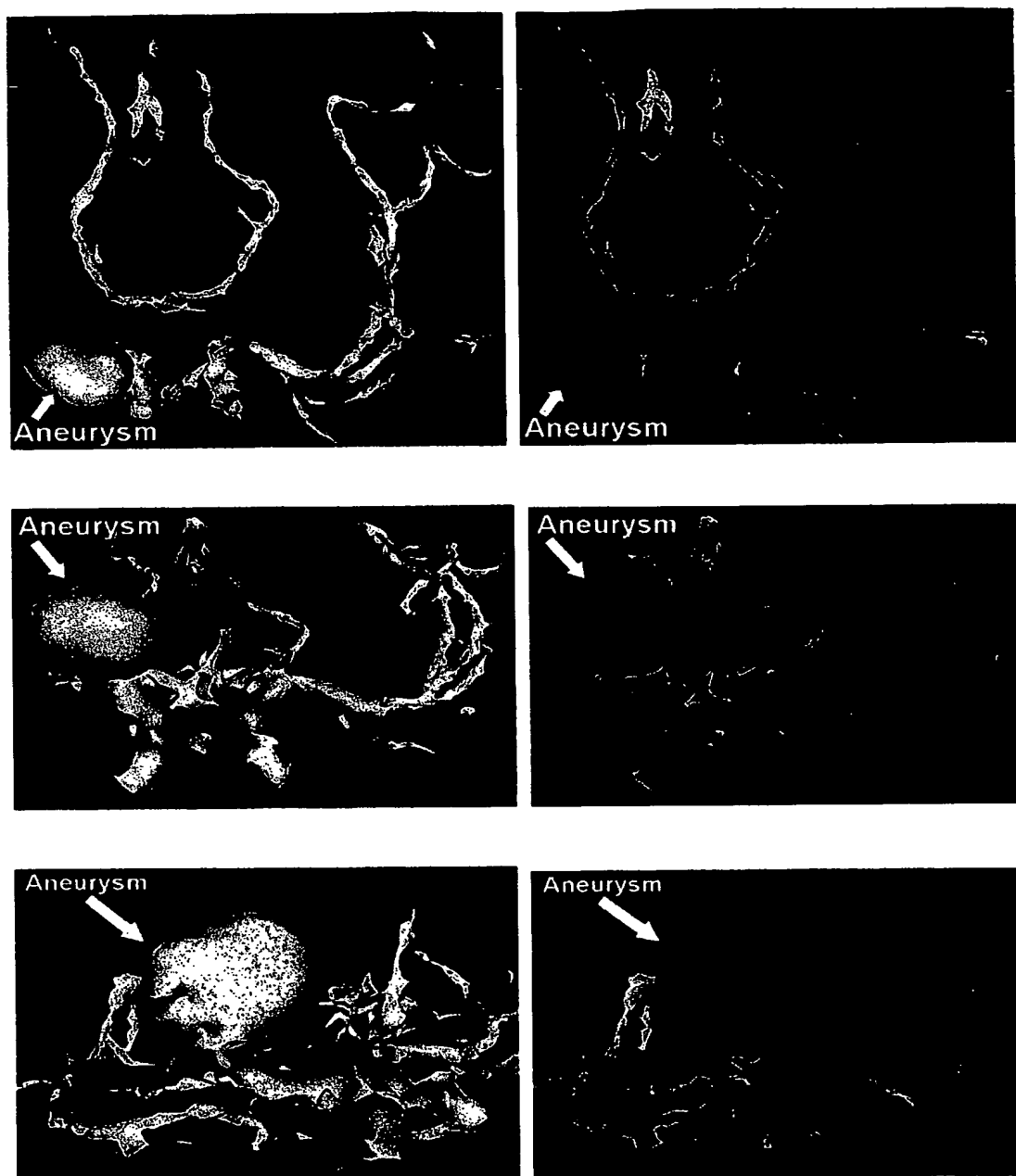


Figure 14: Results for patient 1. Original 3D model shown on left, processed data shown on right.

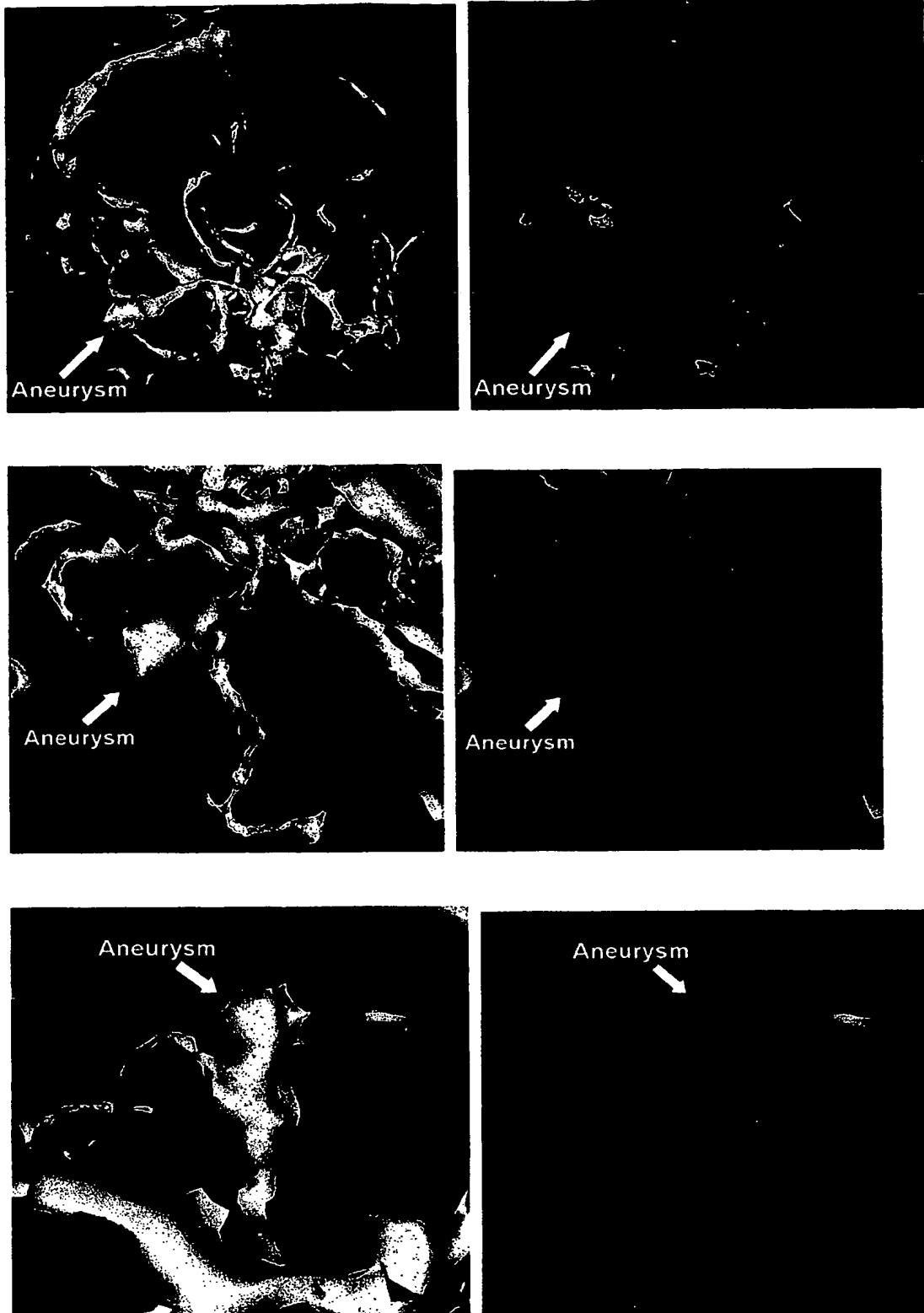


Figure 15: Results for patient 2. Original 3D model shown on left, processed data shown on right.

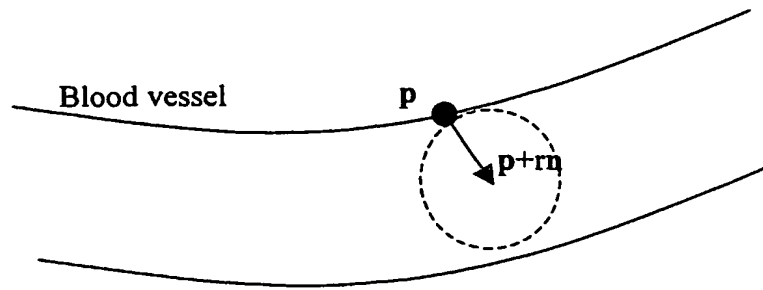


Figure 16A

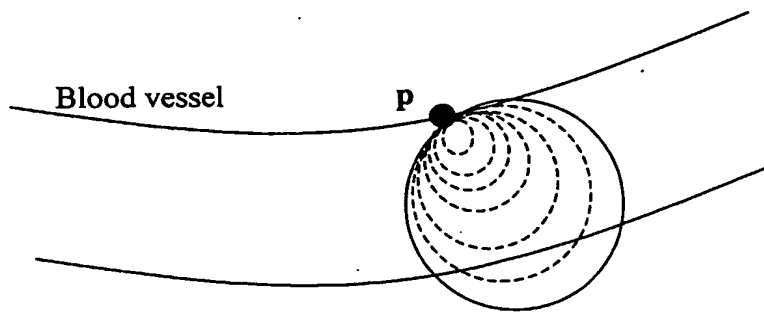


Figure 16B

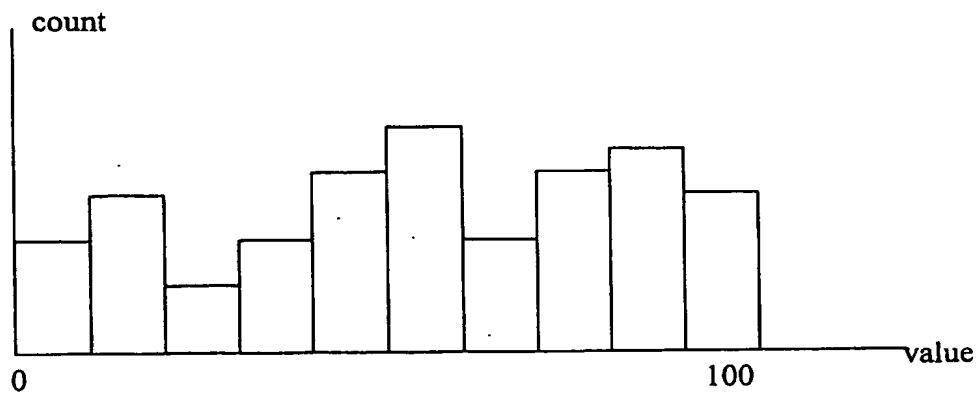


Figure 17

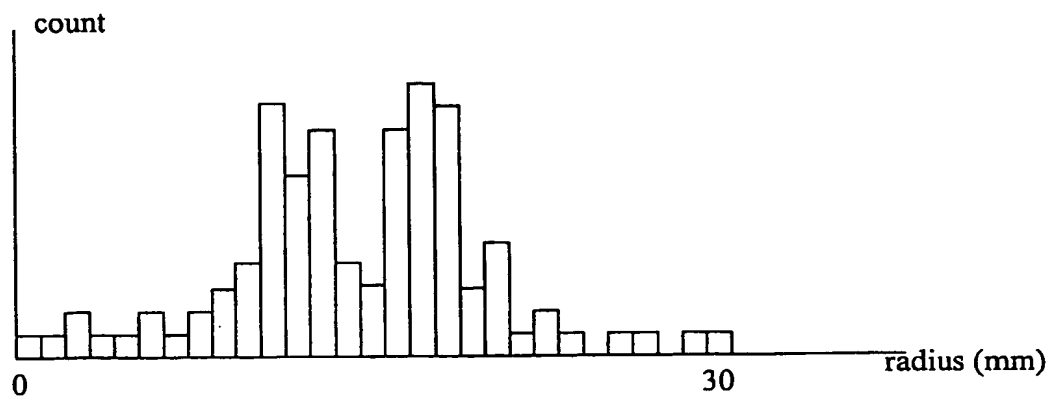


Figure 18

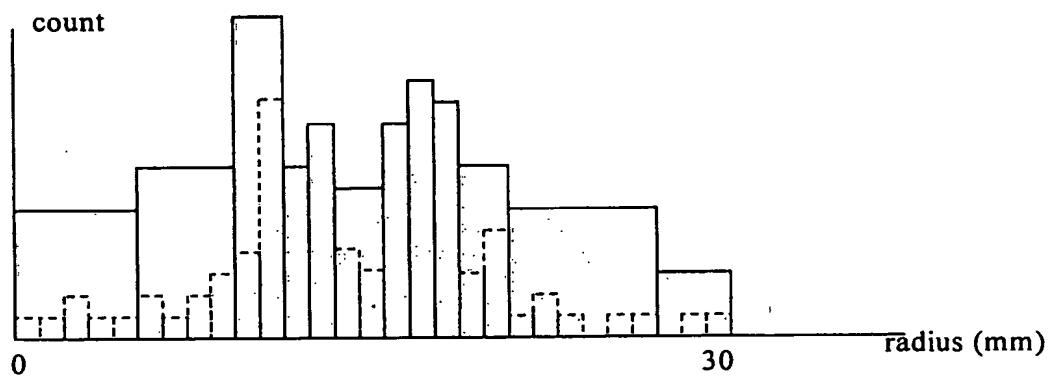


Figure 19

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